

PATENT COOPERATION TREATY

PCT

REC'D 12 OCT 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

WIPO PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PE19316PC00	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/SE2004/000945	International filing date (day/month/year) 15.06.2004	Priority date (day/month/year) 18.06.2003
International Patent Classification (IPC) or national classification and IPC G01N 33/68, C07K 14/47		
Applicant Telefonaktiebolaget LM Ericsson (publ) et al		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☒ (sent to the applicant and to the International Bureau) a total of 11 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

- This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 12-01-2005	Date of completion of this report 05-10-2005
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Anders Edlund Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000945

Box No. I Basis of the report

1. With regard to the language, this report is based on:

- ☐ the international application in the language in which it was filed
- ☐ a translation of the international application into _____
which is the language of a translation furnished for the purposes of:
- ☐ international search (Rules 12.3(a) and 23.1(b))
- ☐ publication of the international application (Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1 - 47 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* 48 - 58 _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages 1 - 11 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to the sequence listing (specify): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to the sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000945

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-58</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-58</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-58</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The object of the invention is to solve the problems of authenticating a HMIPv6 enabled mobile node.

Reference is made to the following documents:

D1: H. SOLIMAN: "Hierarchical Mobile IPv6 and Fast Handoffs, draft-soliman-mobileip-hmipv6-00.txt" IETF DRAFT, 28 June 2000 (2000-06-28), XP002298253 IETF

D2: US 2002199104 A1

D3: WO 03014935 A

D1 is a draft that introduces some extensions for MIPv6 and neighbour discovery to allow for the introduction of a hierarchical MIPv6 mobility management model

D2 relates to a service control network, a service information delivering method, a service providing method, which provides an individual service for each subscriber or terminal, and a router device for use in the service control network.

D3 relates to wireless terminals and more particularly to a technique for efficiently negotiating security associations establishment between a Mobile Node connected to the wireless terminal and different network entities

Claims 1-58:

From D2, which is considered to represent the most relevant document, a method, system and an AAA server is known for supporting HMIPv6 service for a mobile node, characterized by using an AAA infrastructure to bootstrap the HMIPv6 service (see paragraphs 338-344).

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: BOX V

However, the cited documents represent the general state of the art. The invention defined in claims 1-58 is not disclosed by any of these documents. The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method, system and server, where said AAA infrastructure assigning an appropriate MAP to the mobile node for the HMIPv6 service; and transferring HMIPv6 related information required for authenticating and authorizing the mobile node for the HMIPv6 service with the assigned MAP over said infrastructure.

Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-58 is novel and is considered to involve an inventive step. The invention is industrially applicable.